

Applicants: RAVI, Ashoke et al.
Serial Number: 10/608,142

Assignee: Intel Corporation
Attorney Docket: P-5783-US

Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently Amended) An apparatus comprising:
a tuner to tune an oscillation frequency of an oscillator to a value between a first free-running frequency of a first oscillation tank and a second free-running frequency of a second oscillation [[tank.]] tank,
wherein the tuner is connected between first and second paths of said oscillator,
wherein the first path includes said first oscillation tank and a first scaler,
wherein the second path includes said second oscillation tank and a second scaler,
wherein the first scaler is to produce a first gain in said first path, and
wherein the second scaler is to produce a second gain in said second path.
2. (Canceled)
3. (Currently Amended) The apparatus of claim [[2]] 1, wherein the tuner comprises an adder to add first and second signal components passing through said first and second paths, respectively.
4. (Currently Amended) The apparatus of claim [[2]] 1, wherein the first and second gains are complementary.
5. (Original) The apparatus of claim 4, wherein a sum of said first and second gains is substantially constant.

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6. (Original) The apparatus of claim 5, wherein the sum of said first and second gains is substantially equal to one.
7. (Currently Amended) The apparatus of claim ~~[[2]]~~ 1, wherein the tuner is able to control the relative values of said first and second gains.
8. (Currently Amended) The apparatus of claim ~~[[2]]~~ 1, wherein the ~~scaler comprises~~ first and second scalers comprise first and second amplifiers on said first and second paths, respectively, to provide said first and second gains, respectively.
9. (Currently Amended) The apparatus of claim ~~[[2]]~~ 1, wherein the ~~tuner scaler~~ tuner is able to control first and second voltages applied to said first and second amplifiers, respectively.
10. (Original) The apparatus of claim 3, wherein the first path comprises a first transconductor and wherein the second path comprises a second transconductor.
11. (Currently Amended) A wireless communication device comprising:
a dipole antenna to send and receive wireless communication signals; and
an oscillator comprising a tuner to tune an oscillation frequency of said oscillator to a value between a first free-running frequency of a first oscillation tank and a second free-running frequency of a second oscillation ~~[[tank.]]~~ tank,
wherein the tuner is connected between first and second paths of said oscillator,
wherein the first path includes said first oscillation tank and a first scaler,
wherein the second path includes said second oscillation tank and a second scaler,
wherein the first scaler is to produce a first gain in said first path, and
wherein the second scaler is to produce a second gain in said second path.
12. (Canceled)

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13. (Currently Amended) The wireless communication device of claim ~~[[12]]~~ 11, wherein the tuner comprises an adder to add first and second signal components passing through said first and second paths, respectively.
14. (Currently Amended) The wireless communication device of claim ~~[[12]]~~ 11, wherein the first and second gains are complementary.
15. (Original) The wireless communication device of claim 14, wherein a sum of said first and second gains is substantially constant.
16. (Original) The wireless communication device of claim 15, wherein the sum of said first and second gains is substantially equal to one.
17. (Currently Amended) The wireless communication device of claim ~~[[12]]~~ 11, wherein the tuner is able to control the relative values of said first and second gains.
18. (Currently Amended) The wireless communication device of claim ~~[[12]]~~ 11, wherein the ~~scaler comprises~~ first and second scalers comprise first and second amplifiers on said first and second paths, respectively, to provide said first and second gains, respectively.
19. (Currently Amended) The wireless communication device of claim ~~[[12]]~~ 11, wherein the tuner scaler is able to control first and second voltages applied to said first and second amplifiers, respectively.
20. (Original) The wireless communication device of claim 13, wherein the first path comprises a first transconductor and wherein the second path comprises a second transconductor.

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21. (Currently Amended) A method comprising:
tuning a frequency of an oscillator to a value between a first free-running frequency of a first oscillation tank and a second free-running frequency of a second oscillation ~~[[tank.]]~~ tank,
wherein tuning comprises:
providing a control signal at a node connected between first and second paths of said oscillator, wherein the first path includes said first oscillation tank and a first scaler, and wherein the second path includes said second oscillation tank and a second scaler;
providing by the first scaler a first gain in said first path; and
providing by the second scaler a second gain in said second path.
22. (Canceled)
23. (Currently Amended) The method of claim ~~[[22]]~~ 21, wherein tuning the frequency comprises adding first and second signal components passing through said first and second paths, respectively.
24. (Currently Amended) The method of claim ~~[[22]]~~ 21, wherein producing said first and second gains comprises producing first and second complementary gains.
25. (Original) The method of claim 24, wherein a sum of said first and second gains is substantially constant.
26. (Original) The method of claim 25, wherein the sum of said first and second gains is substantially one.

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27. (Currently Amended) The method of claim ~~[[22]]~~ 21, wherein tuning the frequency comprises controlling relative values of said first and second gains.